## PATENT ABSTRACTS OF JAPAN

(11)Publication number:

2001-069783

(43) Date of publication of application: 16.03.2001

(51)Int.CI.

H02P 6/18

(21)Application number: 11-245099

(71)Applicant: JAPAN SCIENCE & TECHNOLOGY CORP

(22)Date of filing:

31.08.1999

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## (54) CONTROL METHOD OF A PERMANENT MAGNET TYPE SYNCHRONOUS MOTOR

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a control method for a permanent magnet type synchronous motor in which reliability can be enhanced while reducing the size, weight and price by estimating the parameters of the motor using a motor drive without requiring any rotor position sensor.

SOLUTION: In the control method for a permanent magnet type synchronous motor, a parameter of the motor, i.e., the inductance of the motor, is measured based on the respective phase currents Iu(TS), Iv(TS), and Iw(TS) being detected when an ON signal is

applied for a short time TS to a specific switching element in an inverter 4 under zero initial current state during stoppage of the

## LEGAL STATUS

motor.

[Date of request for examination]

18.11.2003

[Date of sending the examiner's decision of rejection]

rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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